

**Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554**

In the Matter of)	
)	
Amendment of Part 97 of the Commission's)	RM-10785
Amateur Service Rules to Eliminate)	
Morse code testing)	
)	

To: The Commission

COMMENT

1. I urge the Commission to reject the Petition for Rulemaking RM-10785.
2. Morse code remains essential to the Amateur Radio Service to fulfill its *Basis and Purpose* as delineated under §97.1 of the rules of the Federal Communications Commission, 47 CFR.

§97.1 Basis and purpose.

The rules and regulations in this Part are designed to provide an amateur radio service having a fundamental purpose as expressed in the following principles:

- (a) Recognition and enhancement of the value of the amateur service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications.
- (b) Continuation and extension of the amateur's proven ability to contribute to the advancement of the radio art.
- (c) Encouragement and improvement of the amateur service through rules which provide for advancing skills in both the communications and technical phases of the art.
- (d) Expansion of the existing reservoir within the amateur radio service of trained operators, technicians, and electronics experts.
- (e) Continuation and extension of the amateur's unique ability to enhance international goodwill.

3. The Amateur Radio Service is a voluntary, non-commercial communication service. Licensees devote untold hours of volunteer service to train and provide communications during time of need (e.g. natural disasters). When phone lines are down, licensees provide the means and manpower to pass health, welfare and emergency traffic. Under less than ideal conditions, often with makeshift equipment and antennas, *skilled* radio

amateurs are charged with the important task of getting the message through. Morse code (CW) provides a 20 dB signal advantage over single sideband (SSB) telephony (voice). In other words, when voice transmissions are no longer possible, licensees trained in the use of Morse code can easily switch from voice to radio-telegraphy to pass the traffic. When all else fails, Morse code can get the message across, provided there are those trained to copy code.

4. There are other efficient digital modes that offer similar signal enhancements over SSB (voice) and other inefficient wideband modes. However, these modes can not be decoded by ear and therefore require additional equipment. This equipment is not easily setup under field conditions. This equipment also requires additional electrical power capacity, which would limit operating time when using emergency power off of commercial mains. Further, all commercially manufactured Amateur Radio HF transceivers come equipped for Morse code (CW) telegraphy. Very few (if any) HF transceivers come equipped for digital modes (e.g. RTTY, PSK31, etc.) without the addition of other equipment (e.g. computer, software, TNC, video monitor, etc.).

5. There are many transceiver kits on the market or available through non-commercial amateur radio clubs. These kits and/or designs are a valuable means for developing a practical, hands-on knowledge of radio electronics. Transceiver kits capable of voice modes have proven to be less successful due to their cost, complexity and availability. These are the building blocks for a cadre of *trained operators, technicians, and electronics experts*.

6. A Morse code proficiency requirement for HF ensures that amateur radio licensees are skilled for service during emergencies. A 5-wpm Morse code proficiency requirement ensures that all radio amateurs licensed for high frequency operation will have a basic exposure to this skill. A proficiency of 5-wpm is merely the equivalent of memorizing the sounds of the characters. It is the most basic exposure possible to Morse code and this level of proficiency has been easily achieved by many licensees whose ages range from childhood to senior adults.

I. Introduction and Background

7. I was first licensed as an amateur radio operator in 1980. I currently hold an Amateur Extra class license and am a Volunteer Examiner (VE) with ARRL-VEC. I have served various leadership roles for local amateur radio clubs and have helped introduce amateur radio to hundreds of children and adults. I have taught Morse code in a classroom setting and one-on-one. I currently run the on-air MAC Slow Speed Code Net¹ and a high-speed Morse code net for the Robert F. Heytow Memorial Radio Club². I am a member of FISTS CW Club,³ the Society of Midwest Contesters (SMC),⁴ American Radio Relay League (ARRL),⁵ and JARL A-1 Club.⁶ I have built and repaired amateur radio equipment, earned

¹ Metro Amateur Radio Club (MAC), Lincolnwood, Illinois. Web site: <http://www.qsl.net/mac>

² Robert F. Heytow Memorial Radio Club, Skokie, Illinois. Web site: <http://www.qsl.net/k9ya>

³ FISTS CW Club is an international, not-for-profit organization founded in 1987. Web site: <http://www.fists.org>

⁴ Society of Midwest Contesters (SMC) a midwestern regional organization which promotes radiosport activities. Web site: <http://www.w9smc.com>

⁵ American Radio Relay League (ARRL), 225 Main St., Newington, CT 06111. Web site: <http://www.arrl.org>

⁶ Japan Amateur Radio League (JARL) A-1 Club. Web site: <http://www.jarl.com/a1/>

numerous operating awards and have written articles for several amateur radio publications. I have no pecuniary interests in the amateur radio service.

8. The capability to send and receive Morse code is retained in the U.S. military service, is still being trained in military schools and is in use today in various military theaters throughout the world. “The performance standard for success is 13 code groups per minute. This would not be required or trained if it were not an absolute necessity. Training time is at a premium and unneeded skills are not maintained as requirements for army specialties.”⁷

II. Telegraphy Requirement in the Amateur Radio Service

9. The argument that CW is just another mode is inaccurate. Morse code requires operator *skill* — this skill can not be faked as in Amateur Radio written test elements where the questions and answers are published.

10. Morse proficiency can not be tested with a written exam as in other modes. It is an *audible* language.

11. Morse proficiency requirements for licensure in the Amateur Radio Service are not an impediment to qualified individuals. This is evidenced by the many license upgrades that have recently occurred which included a Morse code exam.

12. A Morse code proficiency requirement is necessary for ARS licensing because many licensees would not otherwise make the commitment to learn this valuable skill. It requires a commitment to become a skilled communicator, not at all like memorizing questions and answers in a published pool.

13. First and foremost should be the Commission’s duty is to encourage an ARS that meets the Basis and Purpose as outlined in §97.1 of the rules of the Federal Communications Commission, 47 CFR. The commission should not adjust its licensing criteria to meet the CEPT requirements of *other* nations.

III. Conclusion

14. The Petitioner fails to make a case for removing telegraphy exams.

15. The Amateur Radio Service must remain a skilled, technical service — not become another Personal Radio Service.

16. The ability to send and receive Morse code can mean the difference between life and death. CW (Morse code) provides a 20 dB advantage over SSB telephony (voice). A skilled operator can switch from voice to CW and get the message through when all else fails.

⁷ G.I. Joe and Mr. Morse by Lt. Col. Bart J. Hill, K7LTC. August 2003, 73 Amateur Radio Today magazine, 70 Hancock Rd., Peterborough, NH 03458-1107.

17. It is beneficial to the Amateur Radio Service to retain a Morse code proficiency requirement as an inducement for additional privileges.

18. The Basis and Purpose of the ARS clearly defines the obligations of the Amateur Radio Service with respect to providing emergency communications. The ability to send and receive Morse code is a vital part of providing emergency communications — when all else fails.

19. I urge the Commission to **REJECT** RM-10785 in its entirety.

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September 27, 2003